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<110> DEANGELIS, PAUL L. CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME <120> 4605.003 <130> <140> 09/842,484 2001-04-25 <141> <150> 60/199,538 2000-04-25 <151> <160> <170> PatentIn version 3.1 <210> 1 <211> 2979 <212> DNA <213> Pasteurella multocida <400> 1 60 ttataaactg attaaagaag gtaaacgatt caagcaaggt taatttttaa aggaaagaaa atgaatacat tatcacaagc aataaaagca tataacagca atgactatga attagcactc 120 180 aaattatttg agaagtctgc tgaaacctac gggcgaaaaa tcgttgaatt ccaaattatc 240 aaatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt 300 tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact

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Leu Ser Glu Ser Glu Lys Asn Ser Leu Lys Asn Lys Trp Lys Ser Ile 85 90 95

Thr Gly Lys Lys Ser Glu Asn Ala Glu Ile Arg Lys Val Glu Leu Val 100 105 110

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Asn Ser Tyr Val Ser Glu Asp Lys Lys Asn Ser Val Cys Asp Ser Ser 50 60

Leu Asp Ile Ala Thr Gln Leu Leu Leu Ser Asn Val Lys Lys Leu Thr 65 70 75 80

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Thr Gly Lys Lys Ser Glu Asn Ala Glu Ile Arg Lys Val Glu Leu Val 100 105 110

Pro Lys Asp Phe Pro Lys Asp Leu Val Leu Ala Pro Leu Pro Asp His 115 120 125

Val Asn Asp Phe Thr Trp Tyr Lys Asn Arg Lys Lys Ser Leu Gly Ile 130 135 140

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